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Record

April 11, 2003

Volume 27 No. 27



Washington University in St. Louis



CAROL HOOPER

All aboard Area mayors, city representatives and University administrators — including Chancellor Mark S. Wrighton (fifth from left) and County Executive Buzz Westfall (second from left) — turned out en masse April 9 to celebrate the groundbreaking of the MetroLink cross county expansion project. The group of civic and University leaders broke ground in the parking lot just east of the West Campus Conference Center, where a below-grade MetroLink station will be constructed similar to the one outside Busch Stadium.

► The April 18 *Record* will contain information and a map detailing the impact of MetroLink's expansion on Hilltop Campus traffic.

U.S. News rankings

Medical school ties for second

By LIAM OTTEN

The Washington University School of Medicine is tied for second in the nation, according to new graduate and professional rankings released April 4 by *U.S. News and World Report* magazine.

It is the highest ranking in the school's history.

In all, *U.S. News* has ranked 18 of the University's graduate and professional programs in the top 10 of their respective fields, and 46 graduate and undergraduate programs in their top 25.

"We are proud of the medical school's ranking, especially for our faculty, who provide outstanding research, teaching and

patient care," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "It also is a fitting tribute to our students, who have been rated as the top students in the country for six consecutive years."

The School of Medicine was ranked third in 2002 and has placed in the top 10 every year since the annual rankings began in 1987. It has ranked first in student selectivity — a measurement of student quality based on Medical College Admission Test scores, undergraduate grade-point average and the proportion of applicants selected — every year since 1998.

See **Rankings**, Page 6

Honorary degrees will go to 6 at Commencement

By SUSAN KILLENBERG MCGINN

One holds a Nobel Prize; another 13 Gold Gloves. One has a performing arts center named after her; another will have a star bearing his name embedded in the St. Louis Walk of Fame.

From a former U.S. secretary of state to a former head of a university, the six notable people selected to receive honorary degrees during the University's 142nd Commencement May 16 all stand out in their respective fields.

During the ceremony, which begins at 8:30 a.m. in Brookings Quadrangle, the University will also bestow academic degrees on more than 2,300 students.

Madeleine K. Albright, Ph.D., former U.S. secretary of state, will

deliver the Commencement address and receive an honorary doctor of humanities degree. (See her profile in the March 21 *Record*.)

The other honorary degree recipients and their degrees are: Herman N. Eisen, M.D., professor emeritus and senior lecturer in the Department of Biology at the Massachusetts Institute of Technology, doctor of science; Douglass C. North, Ph.D., Washington University's Spencer T. Olin Professor in Arts & Sciences and co-recipient of the 1993 Nobel Memorial Prize in Economic Sciences, doctor of science; Ozzie Smith, retired St. Louis Cardinals shortstop and holder of 13 Gold Gloves for his defensive skills, doctor of

See **Degrees**, Page 6

Mice provide clues about obesity, wrinkles, hair growth

By GILA Z. RECKESS

What do wrinkles, hair growth and obesity have in common? All three may involve the same gene, according to School of Medicine researchers.

The team discovered that mice with a mutation in the gene that produces a protein already being investigated as a target for anti-obesity drugs fail to develop wrinkles or normal hair growth.

The study appeared in the April 7 issue of the online early edition of the *Proceedings of the National Academy of Sciences*.

Jeffrey H. Miner, Ph.D., associate professor of medicine and of cell biology and physiology, led the study. Casey L. Moulson, Ph.D., research associate in medi-

cine, is first author.

"This certainly was a surprise to us," Miner said. "Obviously these are very preliminary findings, but they may provide insight into a variety of conditions."

"For example, if a drug could partially inhibit this protein, it might be able to mimic some of the traits of these wrinkle-free mice. These results also raise the possibility that anti-obesity drugs targeting this protein may cause side effects elsewhere in the body."

While developing genetically altered mice for a different purpose, the team discovered that one strain of mice had perpetually open mouths and extremely tight, thick skin.

The animals resembled

humans with a rare genetic disorder called restrictive dermopathy. Like humans with the disease, the mice died shortly after birth.

In addition, when skin samples from these mice were grafted onto healthy animals, they did not develop nearly as much hair as skin grafts from normal mice.

The team was even more surprised by the location of the genetic mutation in these mice — it was in a gene that triggers production of a protein believed

See **Gene**, Page 5



Miner

Art school helps blind, visually impaired get taste of Web multimedia features

By LIAM OTTEN

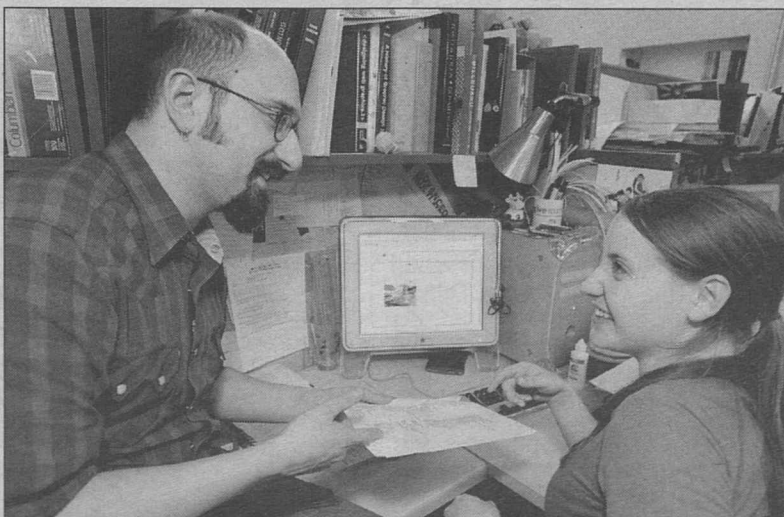
Blind and visually impaired Web users can experience some of the Internet's increasingly expansive potential thanks to a group of senior design students from the School of Art.

The 23 design, illustration and advertising majors have created among the first Web sites showcasing new accessibility components of Macromedia Flash MX, the increasingly popular authoring tool for Web interfaces, interactive video, Web-based games, streaming music and other multimedia content.

For the estimated 7 million to 10 million blind and visually impaired Americans, the Internet has proven to be the most powerful — and most empowering — tool since Braille. Widely available software programs such as JAWS for Windows and Windows-Eyes can read aloud online newspapers, magazines, public records and other previously inaccessible materials, and help simplify daily tasks such as banking and shopping.

Yet as bandwidth and memory improve, businesses have increasingly sought to drive customers to glitzy, graphics-heavy Web sites that are more difficult, if not impossible, for blind users to navigate.

See **Web**, Page 7



MARY ALBURY

Ben Kaplan (left), lecturer in visual communications, recently led a studio with fellow lecturer Reggie Tidwell on Web accessibility for the blind and visually impaired. The class — including senior Rachel Griffin (right) — created some of the first Web sites to take advantage of new accessibility components of Macromedia Flash MX, a popular Web authoring tool.

Dinosaur, crab fossils reveal ecosystem secrets

By TONY FITZPATRICK

For centuries, they wouldn't be caught dead next to each other.

But now a team of geologists directed by Joshua Smith, Ph.D., assistant professor of earth and planetary sciences in Arts & Sciences, has found a well-preserved fossil of a crab within inches of a tail vertebra from a massive plant-eating dinosaur.

Necrocarinidae (crab), meet titanosaurian sauropod (dinosaur).

The find, in Egypt's Bahariya Oasis, is the first instance of a crab fossil found with a dinosaur fossil. It reveals much about both species and the kind of ecosystem where the fossils were found, thought to be a predator-rich mangrove setting dominated by tree ferns and other coastal plants, similar to Florida's swampy Everglades.

The rocks containing these fossils are about 94 million years old, which means they

See **Fossil**, Page 6

Solin named Hohenberg professor of experimental physics

By BARBARA REA

At a formal installation April 3, Stuart A. Solin, Ph.D., professor of physics, became the inaugural Charles M. Hohenberg Professor of Experimental Physics in Arts & Sciences.

The ceremony, which was held in Holmes Lounge, featured remarks from Chancellor Mark S. Wrighton and Chairman of the Board of Trustees John F. McDonnell.

Also present to commemorate the occasion was Charles M. Hohenberg, Ph.D., professor of physics in Arts & Sciences, who, with his mother, Alice, made the gift to the University in memory of his father.

"Professor Hohenberg's generous gift to Washington University will serve as a lasting tribute to his father and as a permanent reminder of the extraordinary generosity and spirit of collegiality that exists among our faculty," Wrighton remarked. "This endowment demonstrates his deep appreciation for and commitment to the University and the physics department. We are truly grateful for this wonderful gift."

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, said: "The new chair in physics will enhance the department, Arts & Sciences and the University as a whole. Professor Hohenberg serves as a model of generosity to us all."

When the senior Charles Hohenberg, a leading industrialist and philanthropist, died in 1984, his widow, Alice, and son, Charles, pondered appropriate ways to honor the life and integrity of this remarkable man.

"The physics department had become my family, too, and there seemed no better memorial than the excellence of the physics department itself," Hohenberg said. "My mother agreed, and



Stuart A. Solin, Ph.D., professor of physics, was installed April 3 as the inaugural Charles M. Hohenberg Professor of Experimental Physics in Arts & Sciences in a ceremony in Holmes Lounge. At left, from left, John F. McDonnell, chairman of the Board of Trustees, and Charles M. Hohenberg, Ph.D., professor of physics in Arts & Sciences, look on as Chancellor Mark S. Wrighton presents Alice Hohenberg Federico with a medallion commemorating the professorship in honor of her father, established by her brother and mother. At right, Solin prepares to address the audience.

together we created a special endowed chair to honor such excellence.

"It became our wish that the Charles M. Hohenberg professorship be used to enhance the quality of our department and the prestige of Washington University, by attracting an exceptional scientist in experimental physics."

His father's firm, Hohenberg Brothers Co. of Wetumpka, Ala., specialized as an interface between cotton farmers and the textile industry. In 1950, the company expanded to many countries and became the leading name in cotton worldwide.

In 1975, Cargill Inc., the world's largest privately held company, acquired the business.

Although Alice Hohenberg died in 1996, the plan for making the gift had already been set in motion. Last year, the right person to fill the chair — Solin — joined the physics department, and the professorship became a reality.

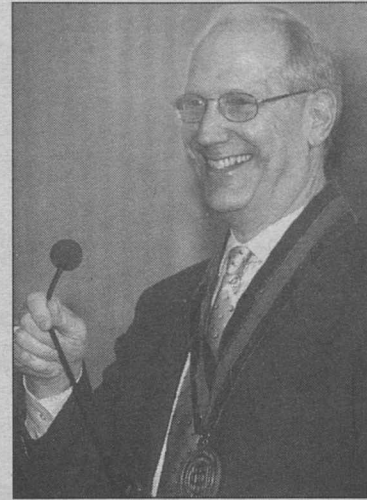
"Stuart Solin is truly a world-class physicist and adds signifi-

cant distinction to our faculty in physics," said John W. Clark, Ph.D., the Wayman Crow Professor and department chair. "As an eminent scientist with a teaching and research career spanning more than 30 years, he is well-deserving of this honor."

Solin joined the University's Department of Physics in 2002. In addition to teaching and research activities, he is chairing a task force to establish a new materials center at the University that will be interdisciplinary in nature and will bring together leading faculty from Arts & Sciences, the School of Engineering & Applied Science and other schools.

A leading figure in condensed matter physics and materials science, Solin's research focus is on fundamental physical phenomena in ordered solids, such as diamonds, and disordered solids, such as window glass.

His contributions to the advancement of physics include the development of a number of experimental techniques for studying solids, including elec-



tron energy loss spectroscopy, field-emission analytical electron microscopy, time resolved femtosecond luminescence and Raman scattering spectroscopy.

He led a research group that recently discovered the new phenomenon of Extraordinary Magnetoresistance, which has impacted many important technologies and was selected as one of the most significant discoveries of 2002 by the American Physical Society.

He earned a bachelor's degree in physics in 1963 (in three years) from the Massachusetts Institute of Technology, and master's and doctoral degrees from Purdue University in 1965 and 1969, respectively.

He joined the University of Chicago faculty and became co-director of the National Science Foundation Materials Research Laboratory and served as a distinguished professor. Ten years later, Solin went to Michigan State University, where he organized and directed the Center for Fundamental Materials Research.

He then joined the NEC

Research Institute in Princeton, N.J., as a fellow, the highest scientific rank in the company. While there, he twice served as chair of its governing body. As the author of more than 230 scientific articles and a host of scholarly reviews, and as editor or co-editor of several books, Solin has been widely published in his areas of specialization. In addition, he is a principal editor of the *Journal of Materials Research* and a member of the U.S. editorial advisory board for the *Journal of Physics: Condensed Matter*.

Furthermore, he holds 15 patents and received the Best Patent Award in 1998 as well as the NEC's Technology Impact Award in 2000.

In addition to those honors, Solin is a former Sloan Fellow and is currently a fellow of the American Physical Society and a fellow and a chartered physicist of the United Kingdom's Institute of Physics.

For more than a half-century, Charles Hohenberg's parents were tireless supporters of many charitable institutions in their community. Undoubtedly their son learned the value of philanthropy by example.

He joined the University in 1970 as an assistant professor and was promoted to full professor in 1978. His area of specialization focuses on noble gases, and he has established a laboratory here for that purpose.

He is the recipient of many awards, including several from the National Aeronautics and Space Administration, and has authored hundreds of articles in scholarly journals and in conference proceedings.

Throughout his career, Hohenberg has been active in national and international organizations and has served on a number of federal organizations to advise on scientific policies.

PICTURING OUR PAST



Arthur Holly Compton (with banjo) spent three years at the University in the early 1920s before becoming dean of physical sciences at the University of Chicago for more than 20 years. But in 1945, Compton returned to Washington University as chancellor. In his eight years as chancellor, he pulled the University out of the depths of The Depression and set it along a path toward greatness. In 1927, he shared the Nobel Prize in physics with C.T.R. Wilson. His first major discovery was the detailed measurement and interpretation of the wavelength change occurring when X-rays are scattered, especially by materials of low atomic number. This is now generally known as the Compton Effect. He showed that the loosely bound electrons in the material scatter the X-rays in accordance with the principles of conservation of momentum and energy, as if they consist of a stream of photons, each having momentum as well as energy. The energy aspect goes back to Planck and Einstein; but the Compton Effect afforded the first clear demonstration that the X-ray photons also carry quantified amounts of momentum. Throughout World War II, Compton also played an important part in the general planning of the atomic bomb project, include the setting up of the laboratory at Los Alamos, N.M., and in reaching the military-political decisions about the use of the bombs in Japan.



Washington University will be celebrating its 150th anniversary in 2003-04. Special programs and events will be announced as the yearlong observance approaches.

Campus Watch

The following incidents were reported to University Police April 2-8. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

April 3

2:10 a.m. — A witness heard a fire alarm in the facilities building, and saw two people exit through the customer service door. The witness confronted the subjects, who admitted to pulling a fire alarm for no reason. The subjects fled, the building was secured and no fire or other criminal activity was noted inside the building.

April 5

2:04 p.m. — A student stated that on April 4 between 3-3:30

p.m., an unknown person possibly took a 12 inch by 8 inch gray metal box containing \$60 and 50 concert tickets. The student believes she left the box unattended in a classroom in Busch Hall, and upon returning for the item found it missing. Total loss is estimated at \$70.

Additionally, University Police responded to two reports of theft and one report each of false identification, property damage, auto accident, larceny and fraud.

Record

Washington University community news

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Washington University in St. Louis

School of Medicine Update

Dialysis center moves to new quarters

By DARRELL E. WARD

The University's Chromalloy American Kidney Center recently moved to newly renovated and expanded ground-floor space in the former location of the Barnes-Jewish Hospital South Emergency Department.

The center was located in the lower level of Barnes-Jewish Hospital.

The Chromalloy American Kidney Center is owned and operated by the School of Medicine and is the largest kidney dialysis center in the St. Louis region. It is also the largest of five dialysis units in the St. Louis area that are staffed by the University's renal division, and it is a major base for the teaching and research activities of the division.

"This move offers patients with end-stage kidney disease in the St. Louis area a state-of-the-art dialysis facility," said Marc R. Hammerman, M.D., the Chromalloy Professor of Renal Diseases in Medicine and director of the renal division.

At the new location, dialysis patients can be dropped off at the door and will experience brighter, more comfortable surroundings during treatment. The new center also offers 32 dialysis stations, compared to 27 at the former location, and expects to perform



Nurse Sharon Eskridge administers dialysis to Katherine Dupree at the newly renovated and expanded Chromalloy American Kidney Center at the School of Medicine.

almost 30,000 dialysis treatments each year. The staff includes physicians, nurses, dietitians and social workers.

"The Chromalloy American Kidney Center is more than just a

dialysis unit," Hammerman said. "It supports the full spectrum of activities required to deliver world-class care to individuals with renal failure."

In addition, the center helps

educate and train medical students, interns, residents and post-doctoral fellows. It has also played a long-standing and leading national and international role in kidney-disease research.

Sensory function focus of lecture

By KIMBERLY LEYDIG

The 23rd Oliver H. Lowry Lecture will be held at noon April 24 in Moore Auditorium.

Charles S. Zuker, Ph.D., professor and investigator at the Howard Hughes Medical Institute and the University of California, San Diego, School of Medicine, will discuss the function of sensory systems.

Zucker is an international expert on utilizing model systems to understand human development and has detailed how abnormalities in these processes can lead to sensory problems such as blindness.

The results of these ongoing studies may increase the understanding of the molecular basis of sensory reception and information processing and how these processes are aggravated in various disease states.

The annual Lowry lecture honors the late Oliver Lowry, M.D., for his contributions to biochemical science and to the University. Lowry was the former dean of the School of Medicine and former head of the Department of Pharmacology.

Extraordinary teachers Students honor professors at awards ceremony

By MICHELLE LEAVITT

Drawing on his experience dressing as a clown to entertain hospitalized children and prison inmates, the teaching style of Dana R. Abendschein, Ph.D., is highlighted with humor and compassion.

His engaging style translates into classroom experiences that facilitate learning and encourage student involvement. So it's not surprising that Abendschein, associate professor of cell biology and physiology and of medicine, was named the Class of 2005 Professor of the Year at the recent Distinguished Service Teaching Awards ceremony.

Abendschein — who also was honored last year as Professor of the Year — will celebrate 20 years with the School of Medicine in July.

Ian Dorward, president of the class of 2005, took Abendschein's selective on cardiovascular control mechanisms and considered taking a summer position in his lab. When Dorward chose to work in another lab, he remembered that Abendschein was excited for him and wished him the best.

"He was genuinely concerned that my experience be right for me," Dorward said.

The Class of 2005 also honored Scott J. Hultgren, Ph.D., the Helen Lehbrink Stoeber Professor of Molecular Microbiology, and Henry V. Huang, Ph.D., associate professor of molecular microbiology, in a tie vote for Course Master of the Year.

Dorward recalled that Hultgren was extremely excited about giving lectures, and his enthusiasm was frequently noticed by the class. His primary concern has always been ensuring that students understand the material.

Huang is known for taking the basic-science orientated first-year material, which can seem both dry and boring to students, and making it interesting and accessible. Students agree that he's an



Medical students honored teachers for distinguished service at the annual teaching awards ceremony. (From left, sitting) Horacio M. Maluf, M.D., and Erika C. Crouch, M.D., Ph.D. (From left, standing) Barry P. Sleckman, M.D., Ph.D.; Dana R. Abendschein, Ph.D.; William A. Peck, M.D., executive vice chancellor of medical affairs and dean of the medical school; and Scott J. Hultgren, Ph.D. Not shown are Jeffrey E. Saffitz, M.D., Ph.D., and Henry V. Huang, Ph.D.

all-around nice guy who loves teaching and is very responsive to students

The Class of 2005 honored Barry P. Sleckman, M.D., Ph.D., assistant professor of pathology and immunology, with the Stanley J. Lang Lecturer of the Year Award. Sleckman is known for his straightforward presentation of material, which challenges students to "think long and hard and want to learn more," Dorward added.

The Class of 2005 also honored Scott Lovitch, a fifth-year student in the medical-scientist training program, as Teaching Assistant of the Year.

Lovitch, who was a teaching assistant for the cell and organ systems physiology course, is pursuing a combined M.D./Ph.D. through the medical scientist-training program. He is known for his energy and thoroughness and for his non-threatening and helpful

demeanor.

Robert S. Wilkinson, Ph.D., professor of cell biology and physiology and instructor of the course, credits Lovitch with ensuring the course ran smoothly.

"That included everything he could do on his own, but he also prodded me to do my job better," Wilkinson said.

The Class of 2004 recognized Jeffrey E. Saffitz, M.D., Ph.D., the Paul E. Lacy and Ellen Lacy Professor of pathology and immunology and professor of medicine, as Professor of the Year.

Saffitz has long been applauded for teaching the cardiology section of pathology with a clear, concise style that is memorable for its conversational tone.

Jason Stephenson, president of the class of 2004, remembered that when Saffitz learned of his award, Saffitz said that

his top priority has always been to ensure that students learn as much as possible while still retaining the information. He explained that the key to accomplishing that is having empathy for the student experience, which allows him to better filter information and stress the most important points.

This is the second consecutive year Saffitz has received the Professor of the Year award.

Erika C. Crouch, M.D., Ph.D., professor of pathology and immunology, was chosen by the Class of 2004 as Course Master of the Year — for the fourth time.

Although long-known as an articulate lecturer, students are consistently impressed with the flawless course-package she presents. As course master for the year-long pathology course, she has the logistically difficult task of coordinating course details with all the professors and students.

The Class of 2004 also named Horacio M. Maluf, M.D., assistant professor of pathology and immunology, as Lecturer of the Year.

Last year, Maluf agreed to teach the gastrointestinal section of pathology on short notice when the position became vacant. Although his status as a new lecturer caused some initial anxiety among students, his witty and entertaining style quickly quelled any fears.

Maluf also used the chalkboard, rather than slides, to demonstrate the processes he was explaining to help simplify the material and allow students to better grasp complex concepts.

Stephenson said that — particularly because of the short-notice situation — the course's success was due entirely to sheer talent on Maluf's part because not only was he teaching a large amount of material, but also as a new instructor, he had to develop the course plan from scratch.

Medical students also presented additional awards honoring excellence in teaching. The box at right lists the awards by class year.

Other award recipients

Class of 2005

Distinguished Teaching Awards

Marc J. Bernstein, M.D.
E. Richard Bischoff, Ph.D.
Glenn C. Conroy, Ph.D.
David A. Leib, Ph.D.
Jeff W. Lichtman, M.D., Ph.D.
Jane Phillips-Conroy, Ph.D.
Linda J. Pike, Ph.D.
Joseph L. Price, Ph.D.
Alison J. Whelan, M.D.
Robert S. Wilkinson, Ph.D.

Class of 2004

Distinguished Teaching Awards

John P. Atkinson, M.D.
Rosa M. Davila, M.D.
Scot G. Hickman, M.D.
Leslie E. Kahl, M.D.
Hanna Khoury, M.D.
Joel S. Perlmutter, M.D.
Arie Perry, M.D.
Clay F. Semenkovich, M.D.
Morton E. Smith, M.D.
Lynn K. White, M.D.

Class of 2003

Resident and Fellow Awards

Mary Abusief, M.D.
Jaime Boero, M.D.
David Finlay, M.D.
Neil Horowitz, M.D.
Ronan Lev, M.D.
Sharyn Lewin, M.D.
Terence Myckatyn, M.D.
Chad Perlyn, M.D.
Matt Powell, M.D.
Beth Ward, M.D.

Class of 2003

Clinical Teaching Awards

Martin Boyer, M.D.
Michael Brunt, M.D.
Thomas Defer, M.D.
David Gutmann, M.D.
Bruce Hall, M.D.
Susan Mackinnon, M.D.
Amy Ravin, M.D.
Walton Schalick, M.D.
Joseph St. Geme, M.D.
Emanuel Vlastos, M.D.

University Events

Environmental architecture examined during 'Green Givens Week'

BY LIAM OTTEN

Green Givens, a University student group dedicated to raising awareness about environmentally sustainable architecture and design, will sponsor "Green Givens Week," a series of exhibitions, talks and film screenings, at the School of Architecture's Givens Hall April 11-18.

Green Givens Week kicks off from 5-7 p.m. today with a closing reception for *Ten Shades of Green*, a traveling exhibition of sustainable design organized by the Architectural League of New

York, currently on view in the Givens Hall main lobby.

The reception will also serve as the opening of the *Green Givens Display*, a student-organized exhibit of sustainable building materials. (Homasote Co. and Renew Wood Inc. provided samples ranging from cork flooring and compressed fiber siding to bamboo shingles.)

The display is intended both to familiarize students with sustainable alternatives to traditional building supplies and to demonstrate that, for architects and designers, sustainability is a broad philosophical approach

extending from initial design conceptions all the way through final construction.

The show remains on view through April 18. Regular hours are 9 a.m.-5 p.m. Monday-Friday.

Additionally, Green Givens will screen *It's Not Easy Being Green*, a short, lighthearted documentary about local views of green design, at 5:30 p.m. April 18 in Givens Hall's Kemp Auditorium. The film, conceived and created by University architecture students, includes interviews with local architects and environmentalists ranging from senior Hanna Beth Blum, presi-

dent of Green Action, the University's student environmental organization, to Peter H. Raven, Ph.D., the Engelmann Professor of Botany in Arts & Sciences and director of the Missouri Botanical Garden.

The film also examines an independent study project through which students, over the last two semesters, helped plan and a new course to be offered next fall about sustainable architecture.

Finally, at 6:30 p.m. that day Green Givens will host a roundtable on "The Human Niche: Sustainability for the Built

Environment" in Givens Hall, Room 113. Senior Craig Hutchinson will moderate the talk; panelists include Jane Wolff, assistant professor of architecture, and Dan Hellmuth, affiliate assistant professor of architecture.

Topics will range from the practical, environmental and even moral imperatives of green design to potential economic tradeoffs, the role of governmental regulation and the developing market for green materials.

All events are free and open to the public. For more information, call 935-6200.

Big Love • Mozart's Idomeneo • Techportal@Olin

"University Events" lists a portion of the activities taking place at Washington University April 11-24. Visit the Web for expanded calendars for the Hilltop Campus (wustl.edu/calendar) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibitions

Contemporary German Art: Recent Acquisitions. Continues through April 20. Gallery of Art. 935-4523.

Contemporary Projects: Arnold Odermatt Photographs. Continues through April 20. Gallery of Art. 935-4523.

Cynthia Weese: Works. Continues through April 11. Givens Hall. 935-6200.

East and West — Two Mashiko Potters: Masayuki Miyajima and Darice Veri. Continues through April 20. Gallery of Art Teaching Gallery. 935-8772.

Green Givens Display. Continues through April 18. Givens Hall. 935-6200.

Made in France: Art From 1945 to the Present. Continues through April 20. Gallery of Art. 935-4523.

Ten Shades of Green. Continues through April 11. Givens Hall. 935-6200.

Film

Friday, April 18

5:30 p.m. *It's Not Easy Being Green.* Givens Hall, Kemp Aud. 935-6200.

Lectures

Friday, April 11

11 a.m. **Comorbidity & Addictions Center Seminar.** "Cultural Variations in Drug Use and Delinquent Behavior: Blacks, Hispanic and White Girls 20 Years Ago — Using Qualitative Research in Minority Communities." Co-sponsored by the Center for Mental Health Services Research. Goldfarb Hall, Rm. 246. 935-5687.

11 a.m. **Pathology & Immunology Lecture.** "High-affinity T Cell Receptors: Engineering, Specificity, and Function." David M. Kranz, prof. of biochemistry, U. of Ill. Children's Hospital 3rd Floor Aud. 362-8740.

Noon. **Cell Biology & Physiology Seminar.** "Cdc42: Always Another Surprise." Richard A. Cerione, prof. of molecular medicine, Cornell U. McDonnell Medical Sciences Bldg., Rm. 426. 362-6040.

4 p.m. **Anatomy & Neurobiology Seminar.** Paul Bridgman, assoc. prof. of anatomy & neurobiology, McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

4:30 p.m. **Mathematics Colloquium.** J.S. Marron, prof. of statistics, U. of N.C. (4 p.m. tea, Cupples II Hall, Rm. 200.) Cupples II Hall, Rm. 199. 935-6760.

7 p.m. **Gallery of Art Friday Forum Lecture.** "Made in France: Art From 1945 to the Present." Rebecca DeRoo, asst. prof. of art history. (6:30 p.m. reception.) Cost: \$10. Gallery of Art. 935-4523.

7:30 p.m. **University Libraries Lecture.** "Darwin & the Duodecimo: Natural Selection and Books." Roderick Cave, researcher and author. West Campus Conference Center, Rm. AB. 935-5495.

Saturday, April 12

10:30 a.m. **University Libraries Lecture.**

"Chinese and Vietnamese Ritual Papers." Roderick Cave, researcher and author. Olin Library, Lvl. A. 935-5495.



Monday, April 14

Noon. **Neurology & Neurological Surgery Research Seminar.** "The Atkins Diet: Turning Epilepsy and Obesity Into Odd Bedfellows." Liu Lin Thio, asst. prof. of neurobiology, Maternity Bldg., Schwarz Aud. 362-7316.

4 p.m. **Immunology Research Seminar Series.** "CD8 T Cell Avidity in Development and Function." Janet Connolly, research asst. prof. of genetics, Eric P. Newman Education Center. 362-2763.

4 p.m. **Physics Seminar.** "The Organic Superconductor: Beta-(BEDT-TTF)2Cu(SCN)2 Under Pressure." Anne-Katrin Klehe, dept. of physics, Oxford U., England. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

6 p.m. **Architecture Monday Night Lecture Series.** "Next: Reconsidering Everyday Forms and Fabrication." Charles Lazor, designer, BLUDOT Design, Minneapolis. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

Tuesday, April 15

Noon. **Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Phosphoinositide Signaling During Phagocytosis and Bacterial Invasion." Sergio Grinstein, medical officer (research), dept. of biochemistry, U. of Toronto. Cori Aud., 4565 McKinley Ave. 362-8873.

4 p.m. **Anesthesiology Research Seminar.** David Yue, prof. of biomedical engineering and neuroscience, Johns Hopkins U. Clinical Sciences Research Bldg., Rm. 5550. 362-8560.

4 p.m. **Chemistry Seminar.** "The Design, Synthesis and Applications of Chemical Precursors to Advanced Ceramic Materials." Larry G. Sneddon, prof. and chair of chemistry, U. of Penn. McMillen Lab., Rm. 311. 935-6530.

4:30 pm. **Women & Gender Studies Panel Discussion.** "Beauty and the Body." (Reception follows.) Duncker Hall, Hurst Lounge. 935-5102.

6 p.m. **Historia Medica Lecture Series on the History of Medicine.** "Sticks and Stones May Break My Bones ... Opiates, Pain, and Professional Medicine in the Middle Ages." Walton O. Schalick III, asst. prof. of history and pediatrics, Bernard Becker Medical Library, Lvl. 7, Kenton King Center. 362-4236.

Wednesday, April 16

Noon. **Academic Women's Network Brown Bag Seminar.** "Grant Writing for Medical School." (Also April 18 & 23, noon.) Cori Aud., 4565 McKinley Ave. 747-0808.

4 p.m. **Biochemistry & Molecular Biophysics Seminar.** "How Does a Molecular Machine Work?" Alexander Grosberg, prof. of physics, U. of Minn. Cori Aud. 4565 McKinley Ave. 362-0261.

6:15 p.m. **Germanic Languages & Literatures Lecture.** "Judentum und Antisemitismus — Karl Kraus und Heinrich Heine." Dietmar Goltschnigg, prof. of German, U. of Graz, Austria. Cupples II Hall, Rm. 114. 935-5106.

Thursday, April 17

Noon. **Genetics Seminar Series.** "Genetic

and Genomic Approaches to Complex Traits and Disease." Richard Spielman, prof. of genetics, U. of Penn. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

2:45-7:30 p.m. **Center for the Application of Information Technology Executive/Management Forum.** "Thinking Outside the Client: Focusing IT on the Needs of Business Customers." Martha Rogers, Peppers & Rogers Group, Norwalk, Conn. Open to CAIT members only. Missouri Botanical Gardens. 935-4792.

4 p.m. **Chemistry Seminar.** "Electric Force Microscopy of Organic Electronic Materials and Nanoscale Nuclear Magnetic Resonance Using High Sensitivity Cantilevers." John Marohn, asst. prof. of chemistry, Cornell U. McMillen Lab., Rm. 311. 935-6530.

4 p.m. **Ophthalmology & Visual Sciences Seminar.** "Conjunctival Pyogenic Granulomas After Strabismus Surgery." Gabriela Espinoza, ophthalmology resident; "The Importance of Vitreous Liquefaction in Age-related Cataract." George Harocopos, ophthalmology resident. Maternity Bldg., Rm. 725. 362-1006.

Friday, April 18

9:15 a.m. **Pediatric Grand Rounds.** "Innate Immunity and Pediatrics — Lessons From the Fly." Paul B. McCray, Jr., prof. of pediatrics, U. of Iowa. Clopton Aud., 4950 Children's Place. 454-6006.

4 p.m. **Anatomy & Neurobiology Seminar.** Richard Baird, sr. research scientist & cen-

ter head, Central Inst. for the Deaf, assoc. prof. of anatomy & neurobiology, McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

6:30 p.m. **Green Givens Week Roundtable.** "The Human Niche: Sustainability for the Built Environment." Panelists include Jane Wolff, asst. prof. of architecture, and Dan Hellmuth, affiliate asst. prof. of architecture. Givens Hall, Rm. 113. 935-6200.

Monday, April 21

Noon. **Molecular Biology & Pharmacology Seminar.** "Understanding the Receptor Switch: How Do Hormones Activate G Proteins." Thomas J. Baranski, asst. prof. of molecular biology & pharmacology, South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Noon. **Neurology & Neurological Surgery Research Seminar.** "Deep Brain Stimulation: What's Shocking?" Joel Perlmutter, prof. of neurology & radiology and assoc. prof. of neurobiology, Maternity Bldg., Schwarz Aud. 362-7316.

Noon. **Work, Families, and Public Policy Brown Bag Seminar Series.** "Family Bargaining and Marriage Markets." Marjorie McElroy, prof. of economics, Duke U. Eliot Hall, Rm. 300. 935-4918.

4 p.m. **Biology Seminar.** "The Ecology & Evolution of Spatially-structured

Microbial Communities." Brendan Bohannon, asst. prof. of biological sciences, Stanford U. Rebstock Hall, Rm. 322. 935-4105.

4 p.m. **Pathology & Immunology Lecture.** Paul E. Lacy Lecture. "Mhc Homologs in Immune Recognition." Pamela J. Bjorkman, prof. of biology, Calif. Inst. of Technology, Eric P. Newman Education Center. 362-2763.

4 p.m. **Physics Seminar.** "Physics Among Light-weights: Superconductivity in MgB2." Paul C. Canfield, assoc. prof. of physics, Iowa State U. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

4 p.m. **Romance Languages & Literatures Lecture.** Rava Lecture. "Eros & the Antique: Sir William Hamilton in Enlightenment Naples." Bruce Redford, prof. of English, Boston U. Brookings Hall, Rm. 300. 935-5175.

6 p.m. **Architecture Monday Night Lecture Series.** "Next: Re-considering Everyday Forms & Fabrication." Charles Lazor, designer, BLUDOT Design, Minneapolis. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

Tuesday, April 22

Noon. **Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Theileria: A Tropical Parasite, Skilled at Surviving in the Jungle of Signal Transduction." Dirk Dobbelaere, prof. of molecular pathology, Inst. of Animal Pathology, U. of Bern, Switzerland. Cori Aud., 4565 McKinley Ave. 362-8874.

Noon. **Program in Physical Therapy Research Seminar.** "Update on Research in Cerebral Palsy." Diane Damiano, assoc. prof. of neurological surgery, 4444 Forest Park Blvd., Rm. B108/B109. 286-1404.

4 p.m. **Anesthesiology Research Unit Seminar.** Wei Wu., graduate research asst. in anesthesiology, Clinical Sciences Research Building, Rm. 362-8560.

5:30 p.m. **Laser Vision Correction Seminar Series.** "Understanding LASIK" and "Am I a Candidate?" Michael S. Conners, dir., refractive surgery center, Center for Advanced Medicine, Lvl. 3 Conference Rm. 747-8036.

7 p.m. **Students & Teachers As Research Scientists (STARS) Academic Year Program.** Alison Goate, prof. of genetics, U. of Mo.-St. Louis, Century C Millennium Center. 516-6226.

Wednesday, April 23

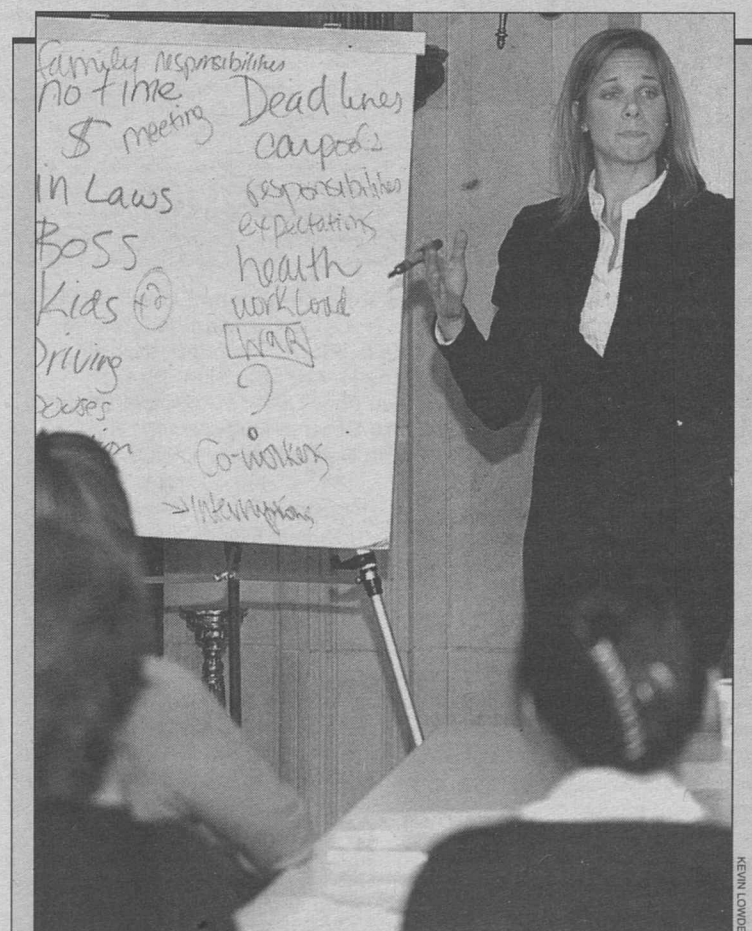
4 p.m. **Biochemistry & Molecular Biophysics Seminar.** "Molecular Mechanism of Maltose Transport in E. coli, a Model for ABC Transport." Amy L. Davidson, asst. prof. of molecular virology & microbiology, Baylor College of Medicine, Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. **Music Lecture.** "Motives of Reconciliation: A Reconsideration of Mozart's *Idomeneo*." Julian Rushton, West Riding Professor of Music, U. of Leeds, England. Music Classroom Bldg., Rm. 102. 935-4841.

Thursday, April 24

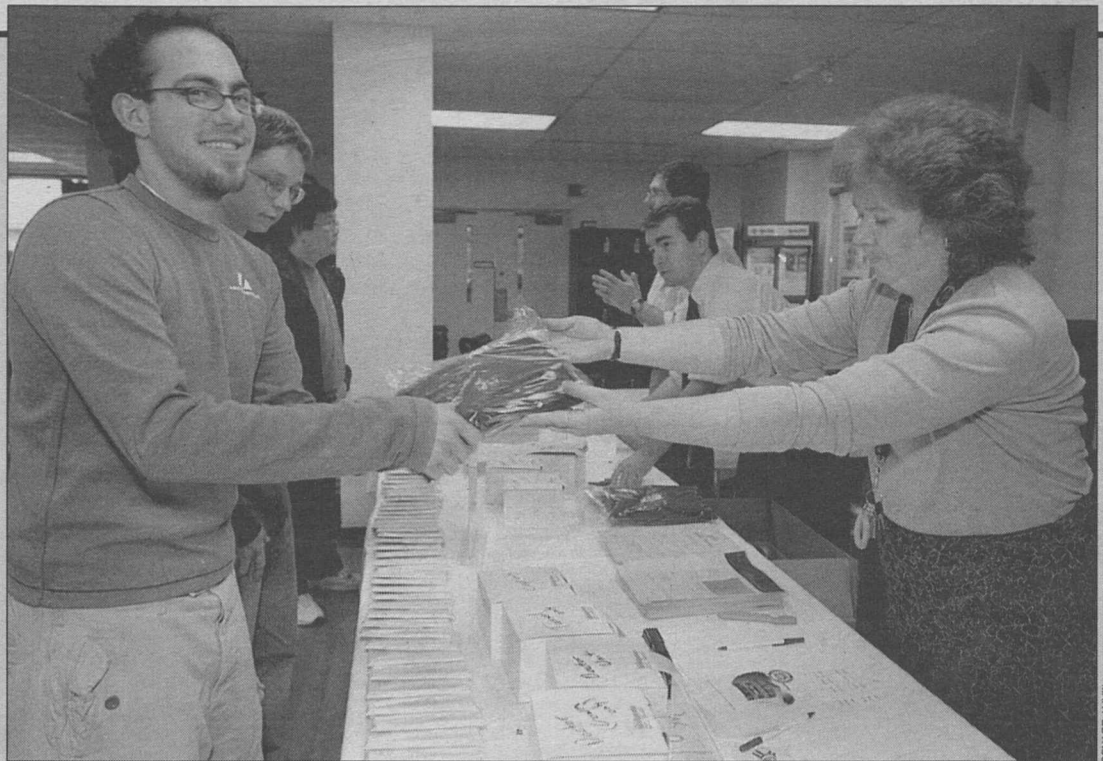
Noon. **Genetics Seminar Series.** "Tau Protein in Neurodegenerative Disease: Genetics and Animal Models." Gerard D. Schellenberg, research prof. of gerontology & geriatric medicine, McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. **Cell Biology & Physiology Lecture.** Erlanger-Gasser Lecture. "Life 100nm



StressLESS Stephanie Habif, health educator in Health Promotion and Wellness, speaks with members of the University community during her recent "StressLESS Work Days" presentation in the Women's Building Formal Lounge. The lecture was part of a series of Wellness Connection events sponsored by the Office of Human Resources. Next up in the series is an information table in Mallinckrodt Student Center on safety tips for outdoor sports and skin-cancer awareness. The table will be part of Staff Day May 19.

KEVIN LOWMYER



Coming soon... Senior Zachary Asher (left) receives his cap and gown from Mary McGinley at the recent "Commencement Center" at the Campus Store in Mallinckrodt Student Center. Caps, tassels, gowns, hoods and custom diploma frames were available for purchase, as were personalized announcements and class rings. The 142nd Commencement is May 16 in Brookings Quadrangle.

Gene

Wrinkles, hair growth, obesity may be linked
— from Page 1

to transport fatty acids. The gene is already considered a potential target for anti-obesity drugs.

The protein, called fatty acid transport protein 4 (FATP4), is one of six proteins of its kind identified in humans and one of five in mice. When added to cells in a petri dish, these proteins change the way cells absorb fatty acids.

Because FATP4 is the only such protein found in the intestine, it is thought to be important in processing fatty acids from the diet. But there is little scientific evidence about the protein's role in living mice and humans.

"No one even considered that

this protein may be involved in skin development," Miner said. "In fact, of the 14 candidate genes we identified, this was one of the last ones we examined because it seemed like such an unlikely culprit."

During development, the skin forms a barrier to keep water from evaporating out of the body and to prevent harmful substances from entering. Mice with the FATP4 mutation did not fully develop this skin barrier.

Instead, they had skin about three times as thick as that of normal mice. The team concluded that abnormal skin thickness may be used to attempt to compensate for the missing protective shield.

But the FATP4 mutation may play an even earlier role in development. The skin's natural barrier cannot be made without lipids (a class of molecules that includes fatty acids), but it does not begin

to form until late in embryonic development.

In contrast, Miner and his colleagues found significant wrinkle and hair-growth deficiencies much earlier in development.

"These findings demonstrate a critical and unexpected role for FATP4 and suggest that lipids may have a role in earlier developmental stages of skin formation than previously thought," Miner said. "In collaboration with others at the School of Medicine who already have been investigating FATP4 and its relatives, we plan to further examine the role of these proteins in important developmental pathways."

Miner and his team have applied for a patent for the use of inhibitors of FATP4 to prevent wrinkling or hair growth and plan to continue investigating the protein's role in skin development and in the intestine.

Beneath the Plasma Membrane: Watching the Microphysiology of Secretion in Neurons and Endocrine Cells." Wolfhard Almers, sr. scientist, Oregon Health & Science U. McDonnell Medical Sciences Bldg., Rm. 426. 362-6944.

4 p.m. Chemistry Seminar. "Chemistry With Stretched Molecules: Using Vibrational Excitation to Probe Surface Chemical Dynamics." Dan Auerbach, IBM Almaden Research Center, Calif. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Ophthalmology & Visual Sciences Seminar. "Corneal Changes Associated With SCUBA." Kevin Maverick, ophthalmology resident, and "Visual and Refractive Outcomes in Lasek Patients Compared with Lasik Patients." Jeffrey Padousis, ophthalmology resident. Maternity Bldg., Rm. 725. 362-1006.

Music

Saturday, April 12

8 p.m. Graduate Voice Recital. Klaus Georg, tenor, and Henry Palkes, piano. Graham Chapel. 935-4841.

Thursday, April 17

8 p.m. Jazz at Holmes. Paul DeMarinis, saxophone. Ridgley Hall, Holmes Lounge. 935-4841.

Wednesday, April 23

8 p.m. Concert. Washington University Jazz Band. Chris Becker, dir. Ridgley Hall, Holmes Lounge. 935-4841.

On Stage

Wednesday, April 9

8 p.m. Washington University All Student Theatre Performance. *Pippin*. (Also April 10-12, 8 p.m.) Cost: \$5. Brookings Quadrangle. 935-7281.

Thursday, April 24

8 p.m. Performing Arts Department Production. *Big Love* by Charles Mee. Andrea Urice, dir. (Also April 26, 5 & 9 p.m., April 27, 2 & 7 p.m.) Cost: \$12,

\$8 for WUSTL faculty, staff & students. Tickets available at Edison Theatre box office. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Field. 935-4705.

Monday, April 21

3 p.m. Men's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

Tuesday, April 22

4 p.m. Women's Tennis vs. McKendree College. Tao Tennis Center. 935-4705.

And more...

Friday, April 11

8 a.m. Techportal@Olin Event. "Analysis of Technology Companies." Co-sponsored by Olin Digital Commerce Center and the Technology Management Club. Simon Hall, May Aud. 935-5942.

5-7 p.m. Closing Reception. *Ten Shades of Green.* Givens Hall. 935-6200.

7-9 p.m. George Warren Brown School of Social Work International Festival Cultural Show. "Uniting Colors of the World." (5-7 p.m. international food available, Goldfarb Hall, Lvl. 1.) Brown Hall, Rm. 100. 567-9324.

Monday, April 14

8 p.m. Writing Program Reading Series. Dave Koch, Anne Sanow, Garth Greenwell and Stephanie Pippin, master of fine arts candidates. (Also April 15, 8 p.m., featuring Rose Jenkins, Daniel Paul and Obi Nwakanma.) Duncker Hall, Hurst Lounge. 935-7130.

Wednesday, April 16

9 a.m.-noon. Visiting East Asian Professionals Program Workshops on the Traditions of Pottery. (Also 1-4 p.m.) Co-sponsored by the School of Art and the Saint Louis Art Museum. Lewis Center. 935-8400.

Friday, April 18

7 p.m. Gallery of Art Guided Tours. *Tours of Contemporary German Art: Recent Acquisitions, Made in France: Art From 1945 to the Present, East and West — Two Mashiko Potters: Masayuki Miyajima and Darice Veri, and Contemporary Projects: Arnold Odermatt Photographs* led by student docents. Gallery of Art. 935-4523.

Worship

Friday, April 11

11 a.m. Catholic Mass. (Soup lunch follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

Sunday, April 13

11 a.m. & 9 p.m. Catholic Mass. Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

Tuesday, April 15

5:15 p.m. Catholic Mass. (Soup dinner follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

Thursday, April 17

9:30 p.m. Catholic Praise & Adoration Service. Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

Sports

Saturday, April 12

1 p.m. Softball vs. MacMurray College. WUSTL Field. 935-4705.

1 p.m. Men's Tennis vs. New York U. Tao Tennis Center. 935-4705.

Tuesday, April 15

4:30 p.m. Women's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

Thursday, April 17

3 p.m. Men's Tennis vs. Vincennes U. Tao Tennis Center. 935-4705.

Friday, April 18

4 p.m. Softball vs. Maryville U. WUSTL

GWB to hold International Festival

By JESSICA N. ROBERTS

From traditional foods to lively entertainment, international students at the George Warren Brown School of Social Work will offer a taste of their homelands at the ninth annual International Festival from 5-9 p.m. today in Brown Hall.

The event, which is free and open to the public, will begin with

an international banquet from 5-7 p.m. in Brown Lounge. This year's theme is "Uniting Colors of the World."

The entertainment, which includes dance, song and poetry from numerous countries, will start at 7 p.m. in Brown Hall, Room 100.

For more information, e-mail Sarah Julienne at sjulienne@gwbssw.wustl.edu.

Sports

3 runners, jumpers qualify for D-III meet

Competing on their home turf for the first time in 2003, junior Ryker Jones, senior All-American Elizabeth Stoll and sophomore Maggie Grabow took advantage of the home cooking at the Washington University Invitational to qualify for the 2003 NCAA Division III Outdoor Track and Field Championships. Jones, who took 11th in the pole vault at the 2003 NCAA Indoor Championships, carried that success into his first competition of the outdoor campaign, winning the vault in a provisionally qualifying mark of 4.78 meters. That height, which set a school record, is currently the top mark in the nation. Stoll, competing in the last home meet of her decorated career, was the winner in the high jump, clearing 1.64 meters to earn a provisionally qualifying mark. The multitasking Stoll, who took second place at the 2002 NCAA Indoor Championships, also took second place in the javelin, throwing 33.88 meters. Also qualifying for the Bears was Grabow, who won the women's 10,000 meters in 36:37.82 to earn a provisional mark in her first-ever race at that distance.

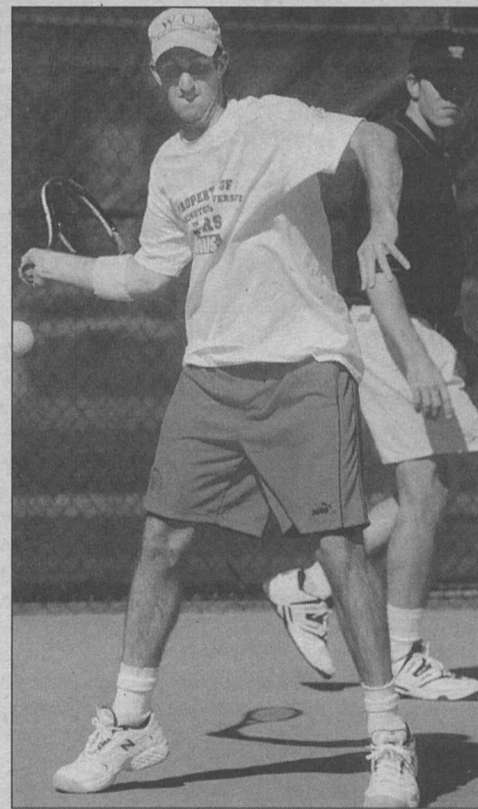
Other updates

The 14th-ranked softball team split a doubleheader with Fontbonne University April 3 at WUSTL Field. Washington U. won game one, 1-0, while Fontbonne posted a 3-1 win in game two. Sophomore Victoria Ramsey threw a shutout and improved to 8-2. She allowed five hits and struck out two as she threw her fifth

complete game of the year. In game two, Fontbonne took the early 2-0 in the top of the first behind a two-run home run from Taylor Rosner. The Bears answered back as Liz Swary drove in Dionna Little to cut the score to 2-1 in the bottom of the first inning. The Bears managed just three hits the rest of the way. April 5, Ramsey threw a one-hitter in game one and freshman Stephanie Sheppard was 4 for 4 with two RBIs in game two as the Bears posted a sweep of Westminster College in Fulton, Mo. The Bears claimed game one, 10-0 in five innings, as Ramsey had a no-hitter through 4 2/3 innings before Tiffany Norris broke up the bid with a hit to right field with two outs in the

bottom of the fifth. In game two, Washington U. won, 13-3 in five innings, as the Bears won 20 or more games for the fourth consecutive season. Junior Lorri Fehlker pitched five innings, allowing three earned runs.

The baseball team improved to 17-8 by winning four of five games. Washington U. rolled to a 15-1 win over Maryville University in the first of two April 1, only to watch the Saints take an 11-10 win in the nightcap. Steve Schmidt tossed an eight-inning complete game as the Bears rolled past MacMurray, 14-2, April 3. He struck out six and threw just 54 pitches through the first seven innings. Ryan Argo went 5 for 5 with two home runs, three RBIs and four runs scored. The Bears made it three straight with two wins April 5. Josh Deitch shut down a 19-5 Thomas More team that entered the game averaging better than 11 runs per contest. He scattered six hits, five of them singles, and



Bears junior Brian Alvo practices earlier this season under the watchful eye of head coach Roger Follmer. The men's team is 7-4, with Alvo posting a 6-6 record at No. 1 singles.

struck out six batters. Damien Janet matched Deitch in game two as the Bears downed Knox College, 4-1. Janet fanned a career-high 14 batters and surrendered just four singles.

The No. 7 men's tennis team improved to 7-4 as the Bears posted a 2-1 record last week. The Bears opened the week by losing to Williams College, 4-3, but rebounded to post victories over the University of Wisconsin-Eau Claire, 6-1, April 4 and Wittenberg University, 5-2, April 5.

The 10th-ranked women's tennis team moved to 10-2 with two more wins at home April 5-6. The Bears rolled past No. 18 Wisconsin-Eau Claire, 9-0, before polishing off Wittenberg, 8-1.

Degrees

Six to receive honorary recognition May 16
— from Page 1

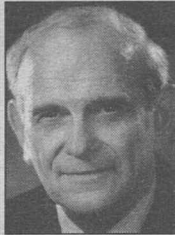
humanities; William P. Stiritz, former chairman, president and chief executive officer of Ralston Purina Co., doctor of humanities; and Blanche M. Touhill, Ph.D., professor emerita of history and education and chancellor emerita at the University of Missouri-St. Louis, doctor of humanities.

Eisen's appointment in 1955 to an endowed chair as Professor of Medicine at Washington University provided the resources that launched his laboratory toward international prominence in immunology.

Eisen came to the School of Medicine from New York University, where he had earned a medical degree in 1943. At NYU, his research facilities were limited, and it was necessary for him to moonlight as a physician in pri-

vate practice to provide for his family.

By joining Washington University's medical school, with its long tradition of full-time academic engagement, Eisen's research took off, enabling him



Eisen

and his colleagues to focus intensively on how an individual's immune system recognizes and reacts against virtually limitless numbers of different foreign substances called antigens. This capacity underlies the immune system's ability to protect against the hordes of viruses and bacteria that cause infectious diseases.

In his 18 years at the University, he co-authored several editions of an innovative textbook on microbiology and immunology and became professor and head of the Department

of Microbiology in 1961.

In 1973, Eisen joined the Center for Cancer Research at MIT, where he continues to make advances in immunology as an active researcher.

North has spent more than 50 years pondering complex variations of a simple question: Why do some countries become rich, while others remain poor?

North graduated with a triple bachelor's degree in political science, philosophy and economics from the University of California, Berkeley, in 1942, and later, in 1952, earned a doctorate in economics there.

He began his academic career at the University of Washington, where he spent 33 years on the economics faculty, including a 12-year stint as department chair.

North came to Washington University in 1983 as the Henry R. Luce Professor of Law and Liberty in the Department of Economics in Arts & Sciences and served as director of the Center in Political Economy from 1984-1990.

His research has focused on the formation of political and economic institutions and the consequences of these institutions on the performance of economies through time.

In 1992, he became the first economic historian to win one of the economics profession's most prestigious honors, the John R. Commons Award. Currently, he is involved in the new and growing branch of economics called institutional economics, which draws heavily on his work and that of fellow Nobel laureate Ronald Coase.

Smith is known in baseball as "The Wizard" and is arguably the greatest defensive shortstop in the history of Major League Baseball. He redefined the position in his nearly two decades of work at one of the game's most demanding positions.

Smith, who retired as a player in 1996, was named to 15 all-star teams.

On July 28, 2002, Smith became the 22nd major-league shortstop and the 254th person overall inducted to the National Baseball Hall of Fame and



Smith

Museum in Cooperstown, N.Y.

Smith's contributions off the field also are noteworthy. A St. Louis resident, he has spent countless hours assisting

local charities, including the Multiple Sclerosis Society, the St. Louis Variety Club, Ronald McDonald House and Mathews-Dickey Boys' & Girls' Club.

He has received a number of awards recognizing his commitment to his community, including the 1992 St. Louis Man of the Year for his charity work and his all-star status on the diamond. He was the first athlete to receive the prestigious civic award.

On May 11, he will be inducted into the St. Louis Walk of Fame with a star and biographical plaque embedded along the Delmar Loop in University City.

Stiritz is chairman of the board of both Energizer Holdings Inc., a manufacturer of primary batteries and flashlights and a provider of portable power, and Ralcorp Holdings Inc., a publicly owned food company.

He served for more than 30 years in executive positions with Ralston Purina, including as chairman, president and chief executive officer from 1981-1997.

He earned a bachelor's degree in business administration from Northwestern University in 1959 and a master's degree in European history from Saint Louis University in 1968.

As a member of Washington University's Board of Trustees from 1982-1998, he chaired the board's Hilltop Finance Committee, helping steer the University's growth and progress.

In 1998, Stiritz and his wife, Susan, created the University's first endowed professorship in women's studies — now known as the Program in Women and Gender Studies — strengthening the increasingly important academic program in Arts & Sciences.

Stiritz has been actively

involved in numerous St. Louis civic efforts, including heading an American Red Cross Blood Drive and a Boy Scout Food Drive and chairing three separate Salvation Army Tree of Lights annual fundraising campaigns.

During Touhill's 12-year tenure as chancellor, UM-St. Louis added 30 degree programs; funded 32 new endowed professorships; and added campus housing and built or renovated 17 academic buildings. Highlights include construction of a 175,000-square-foot student center and a \$50 million performing arts center, which bears her name.

The university also dramatically increased its minority and international student enrollment and raised more than \$275 million in gifts, grants and contracts. The campus expanded its size by 138 acres to 328 acres and created academic centers in four locations around Missouri.

Touhill, along with Washington University Chancellor Mark S. Wrighton, was instrumental in helping develop the Joint Engineering Program, a collaboration between UM-St. Louis and Washington University in which nearly 400 students per year participate. The program, which allows students to take their lower-level engineering courses at UM-St. Louis and upper-level courses and labs at Washington University, is the first such program in the country to receive national accreditation.

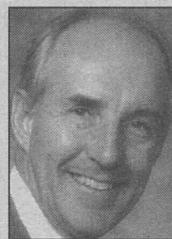
Touhill earned a bachelor's degree and doctorate in history and a master's degree in geography, all from Saint Louis University.

Touhill joined UM-St. Louis as an assistant professor in 1965, just two years after the campus opened. She was the first female faculty member in the Department of History, the first tenured female faculty member and the first female administrator in the university's history.

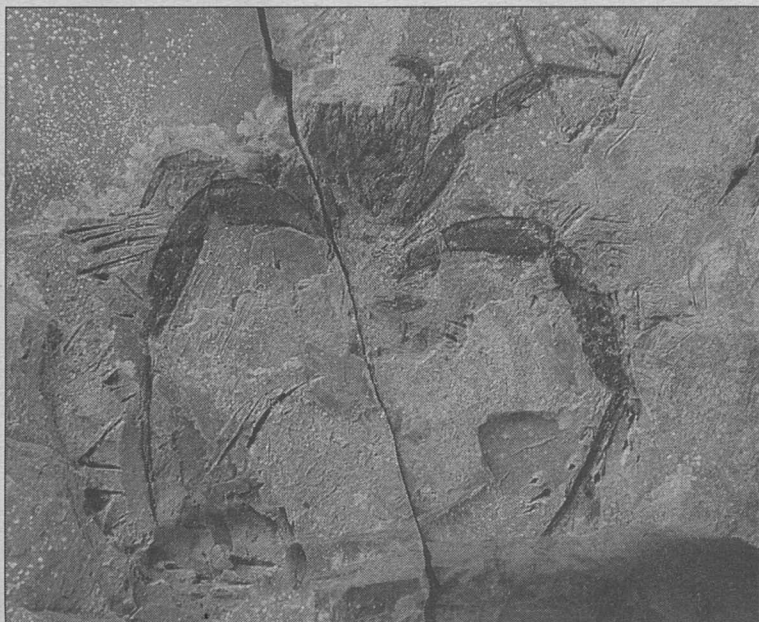
She assumed the responsibilities of interim chancellor in 1990 and was named chancellor in April 1991.



Touhill



Stiritz



This well-preserved fossil of a crab was found within inches of a dinosaur tailbone in Egypt's Bahariya Oasis, the first evidence in literature of the two found together. The find helps piece together what ancient environments might have been like.

Fossil

Dinosaur tailbone, crab found in near proximity
— from Page 1

date back to the Cretaceous Period, some 65 million to 130 million years ago.

"The two normally don't hang with each other, or they are at least not commonly discovered together," said Smith, of crabs and dinosaurs.

Smith made international news in 2001 when he and his collaborators published results of their discovery of the second most massive dinosaur ever unearthed, *Paralititan stromeri*, in the same part of the Bahariya Oasis.

"There have been anecdotal mentions of crabs with dinosaurs, but those remains turned out to be lobsters or ghost shrimp," Smith said. "Even if the time gap between the two is thousands of years, we have visual proof of these two coexisting together. This is a nice surprise. It fills in more about this kind of ecosystem."

The results are in a paper that will be published later this year in the *Journal of Paleontology*.

Smith and his collaborators from the University of Pennsylvania, the Cairo Geological Museum and Drexel University discovered the fossils in 2001, on an expedition for dinosaur bones. They found a dinosaur tailbone, fossil plants and the crab, all within a foot-and-a-half of each other.

Because there have been informal (though never published in peer-review journals) mentions of crabs being part of ecosystems where dinosaur bones have been found, and more importantly because he isn't qualified to describe a crab, Smith wanted to

clarify and sought geologist Carrie E. Schweitzer, Ph.D., of the Kent State University Department of Geology.

"As far as we can tell from the literature, this is the first confirmed notice of a crab associated with a dinosaur," said Schweitzer, who is the lead author on the crab paper. "The find is significant because it permits paleontologists to frame a very diverse — and thus much more accurate — description of what these ancient environments would have looked like."

"The deposits that enclose the dinosaur and the crab also contain crocodile-like animals, various invertebrates, fish, sharks, plesiosaurs — a kind of reptile — and turtles as well as plant material. Thus, we have a very complete idea of what types of organisms constituted the ecosystem."

Crabs, "brachyuran decapods" in technical jargon, from coastal habitats are uncommon in the fossil record because their remains rapidly disintegrate, either from decomposition or scavenging by other predators.

Geologists think that the crabs of the Bahariya Formation probably were scavengers that fed on vegetation and other organic material. They were a possible food source for fish and other vertebrates and invertebrates in the ecosystem.

Smith speculates that it is possible that small or baby dinosaurs might have fed on the crabs, but said speculation is the most he can do.

"Almost everything we're finding at the site is a predator," Smith said. "I could see a baby *Spinosaurus* picking up mangrove crabs, but it's all speculation because we have no solid proof of what dinosaurs ate."

Rankings

School of Art jumps to No. 21; law tied for 25th
— from Page 1

In this year's overall standings, the medical school placed after first-ranked Harvard University and tied with Johns Hopkins University, followed by Duke University; the University of California, San Francisco; and Columbia, Stanford and Yale universities.

Individually, WUSTL's internal medicine program ranked fourth in the nation, while pediatrics tied for sixth, drug and alcohol abuse placed ninth and women's health tied for ninth.

The AIDS program placed 15th; health service administra-

"We are proud of the medical school's ranking, especially for our faculty, who provide outstanding research, teaching and patient care. It also is a fitting tribute to our students, who have been rated as the top students in the country for six consecutive years."

WILLIAM A. PECK

tion tied for 16th; and geriatrics was ranked 17th in the nation.

The Department of Biomedical Engineering in the School of Engineering & Applied Science boasted dramatic improvement, rising five spots to tie for 16th in the nation. The program, founded only in 1997, recently moved into a new, state-of-the-art research and teaching facility, Uncas A. Whitaker Hall for Biomedical Engineering.

Overall, the engineering school ranked 35th in the nation.

The School of Art also rose five spots to tie for 21st in the nation, with the sculpture program named 13th.

"We are extremely honored by the growing national reputation of our graduate program," said Jeff Pike, dean of the School of Art. "It is a testament to the energy and talent of our superb

faculty and students, and reflects their ongoing determination to engage the school in the broader intellectual conversations of academic and professional life."

The School of Law again tied for 25th in the nation, with its clinical training program placing sixth and trial advocacy tied for 17th.

The Olin School of Business tied for 29th in the nation, with the executive master of business administration program ranked 23rd.

The Department of Education in Arts & Sciences tied for 49th.

The 2004 edition of the guidebook *America's Best Graduate Schools* hit newsstands April 7. Many of the rankings categories also appeared in the April 14 edition of *U.S. News & World Report*, which also went on sale April 7.

More online

A complete set of WUSTL rankings has been prepared from *U.S. News & World Report* data and is available at record.wustl.edu/rankings.html. This review sheet includes the most recent rankings conducted for each area. *U.S. News* does not rank every category every year, and some rankings date back as far as 1997.

Notables



Gimme a W! Kelsey Kindbom (left), 9, daughter of head football coach Larry Kindbom, follows the lead of sophomore Andrea Marks during a cheerleading clinic April 5 at the Athletic Complex. Taught entirely by the University's cheerleaders, 52 girls attended the all-day event and performed for their parents at the end of the day. "The girls had a great time, and their parents seemed to be pleased with what they learned while they were here," said Marks, a marketing and finance double major in the Olin School of Business. "I know the other cheerleaders and I all had fun doing it, too." Marks added that the cheerleaders hope to make the clinic an annual event.

Web

Students work to make Internet more accessible

— from Page 1

"Sites that are primarily graphics-driven pose real problems for blind and visually impaired users," said Ben Kaplan, lecturer in visual communications, who led the Senior Advanced Multimedia Studio with fellow lecturer Reggie Tidwell.

Part of the problem is cultural: Web designers tend to be young and erroneously assume perfect vision in all Web users.

And part of the problem has been technological: "Screen-readers are very good at deciphering static HTML text, but Flash content has, to this point, been completely inaccessible," Kaplan said.

Public attention was focused on the issue of Web accessibility by a pair of high-profile lawsuits — one against America Online in 1999, the other against Southwest Airlines last year. Just last month, the Web Accessibility Initiative of the World Wide Web Consortium (W3C), a group that institutes common Web protocols, issued its latest accessibility guidelines.

Macromedia Inc. released the Flash updates in 2002 — a major boon for accessibility advocates, given that some form of the company's Flash Player has been installed by 95 percent to 98 percent of the world's estimated 507 million online users, according to technology analysts International Data Corp.

In addition to making Flash content "visible" to screen readers, Flash MX allows designers to embed text descriptions of multimedia content on Flash pages and

to tailor just what is and is not read — the latter a significant improvement over the less discriminate HTML.

"The technology is there to make really good, accessible multimedia sites," said Tidwell, principal of Curve Theory design. "Unfortunately, examples remain fairly scarce. I'm afraid that some people still see accessibility as a nuisance. Yet given the numbers of visually impaired Americans, why wouldn't you want to make sites accessible?"

Kaplan and Tidwell hope the student projects — which range from interactive maps, games and e-cards to documentaries, travel guides and instructional videos — will inspire other Web designers to take advantage of that potential.

Currently in final review, the projects will soon be available to the public at slsbvi.org, the Web site of the Saint Louis Society for the Blind and Visually Impaired (SLSBVI), a nonprofit agency offering a wide range of rehabilitation and low-vision services.

Also, by gearing projects equally to blind and sighted audiences, they hope to reassure designers that ensuring accessibility does not mean limiting visual creativity.

"This isn't about isolating the blind in some sort of parallel universe," said Kaplan, also principal of "act3: designing the story," a new media design company. "It's about providing blind and visually impaired users with the same access everybody else has."

For example, Wesley Gott's elegant Mapping the Stars provides handsome blue-and-gold diagrams and drawings of both the constellations and their mythic inspirations, organized by hemisphere and season. For blind users, the site provides equally detailed text descriptions that can be read aloud and is easily navigable by keyboard — a necessity for the special commands screen-readers depend on.

Meanwhile, Lori McCaskill's interactive map of Asia provides both information and a rare opportunity for blind computer users to work with a mouse. As the cursor travels across the screen, a voice calls out the names of corresponding countries and bodies of water, offer-

"I'm afraid that some people still see accessibility as a nuisance. Yet given the numbers of visually impaired Americans, why wouldn't you want to make sites accessible?"

REGGIE TIDWELL

ing a visceral sense of their relative proximities.

Additionally, double-clicking on, say, Iraq or India, activates short, encyclopedia-style histories.

Other projects include a guided tour of the Missouri Botanical Garden and documentaries of the Harlem Renaissance, the 1904 Olympic marathon and the song "Strange Fruit" (made famous by Billie Holiday).

Gennie Eachus, who teaches computer access for the SLSBVI, served as a guest critic and unofficial adviser to the class. She noted that, as the baby boom generation continues to age, demand for online accessibility is only likely to increase.

"As people get older they develop eye conditions, be it cataracts or glaucoma or macular degeneration," Eachus said. "Those who don't support accessibility now may need it in 10 years."

Kaplan compares Web accessibility to the introduction of wheelchair ramps in public buildings or closed captioning on television.

"From a business perspective, integrating accessibility into the 'ground floor' is ultimately easier, more efficient and less expensive than retrofitting a finished design," he said. "For designers, accessibility should eventually become just one more factor in the overall development process."

"Everyone is supposed to be equal on the Web," Kaplan concluded, alluding to the Internet's early, idealistically democratic ethos. "It's about inclusion, not exclusion."

Architecture honors distinguished alumni

BY LIAM OTTEN

The School of Architecture honored eight outstanding alumni at its 10th annual Distinguished Alumni Awards Dinner April 10 at the Renaissance Grand Hotel downtown.

The Distinguished Alumni Awards recognize School of Architecture graduates who have demonstrated exceptional creativity, innovation, leadership and vision through their contributions to both the school and the practice of architecture.

Recipients for 2003 are Warren Boeschstein, Jamie Cannon, Robert Edmonds, Richard T. Henmi and Joan Krevlin.

"One of the true measures of the quality of an academic institution is the professional attainment of its alumni," said Cynthia Weese, dean of the School of Architecture. "By this measure, Washington University's School of Architecture ranks extremely high. Our alumni have had remarkable careers, achieving success in a wide range of endeavors."

In addition, Andrew W. Bernheimer and Jared Della Valle shared the Young Alumni Award, while King Graf received the 2003 Dean's Medal for exceptional service, dedication and advocacy on behalf of the school.

Boeschstein (B.S.A.S. '64) is a professor and former associate dean of the School of Architecture at the University of Virginia in Charlottesville, where he has taught since 1973.

His research, which focuses on community design and transportation, includes numerous studies for the Virginia Department of Rail and Public Transportation as well as the book *Historic American Towns Along the Atlantic Coast* (1999), an examination of nine representative coastal towns.

He is working on a manuscript titled *Places of Learning: The Character of College Towns*.

Cannon (B.Arch. '60) is founder of Jamie Cannon Associates, Architects and Planners, a St. Louis firm specializing in the programming and design of technical research buildings; industrial visual improvement programs; and master plans for process industries.

A past president of the St. Louis Chapter of the American Institute of Architects (AIA), Cannon serves on the architecture school's national council and co-chairs the major gifts committee of the Sam Fox Arts Center. In 1994, he received the school's first Dean's Medal and in 2000 received the University's Distinguished Alumni Award.

Edmonds (B.Arch. '61) is a project designer with Hellmuth, Obata + Kassabaum (HOK), the international architecture firm based in St. Louis, where he has worked for more than 40 years. Edmonds has spearheaded a broad range of public and institutional project, with a particular emphasis on complicated federal and criminal justice facilities, including Federal Reserve Banks of Minneapolis, Atlanta, Cleveland and Richmond-Baltimore.

Local projects include the Maryland Towers, the America's Center Expansion and the United States Transportation Command Headquarters Facility

at Scott Air Force Base. He recently led construction of the Abraham Lincoln Presidential Library in Springfield, Ill.

Henmi (B.Arch. '47) is a project manager with Thalden Emery Architects in St. Louis. Early in his career, Henmi joined Russell Mullgardt & Schwartz (later Schwarz & Van Hoeffen), one of St. Louis oldest firms, eventually becoming partner and then sole owner.

In 1989, he sold the firm to the Kuhlman Design Group, remaining as senior vice president until 1995, when he launched a new office, Henmi & Associates. He and his staff joined forces with Thalden Emery Architects in 2002.

A leading adaptive/reuse architect, Henmi transformed St. Louis' defunct Spanish Pavilion into the Marriott Hotel and the Edison Brothers Warehouse into the Breckenridge-Sheraton Suite Hotel. Other major projects include Mansion House Center, Council Plaza and the Greyhound bus terminal.

Krevlin (B.A. '75/M.Arch. '78) is a partner at BSKK Architects LLP. Her work has focused on the integration of architecture and education, including award-winning projects for the Children's Museum of Manhattan, the New York Hall of Science Teaching Park, the Preschool Garden of Science and the FDNY Fire Zone, a fire-safety learning center at Rockefeller Center.

She is working on a feasibility study for the Westchester Children's Museum at Rye Playland, as well as a Reception and Administration building for the Queens Botanical Garden in Flushing, Queens.

Bernheimer (M.Arch. '94) and **Della Valle** (M.Arch./S.I. '96) are founding partners of della valle + bernheimer design inc. (d+bd), based in New York. Since its founding in 1996, d+bd has completed a wide range of residential, commercial and public architectural projects as well as furniture design and award-winning competition entries.

Their work has been featured in numerous publications and been exhibited at the Architectural League of New York, the National Building Museum, the 2002 Venice Biennale and the San Francisco Museum of Modern Art. Last year, d+bd was selected as winner of the Architectural League of New York's 2002 Young Architect's Forum and was awarded a citation from the AIA's New York Chapter.

Graf (B.Arch. '53) is retired vice chairman of HOK. He joined the firm in 1956 and in 1974 opened the HOK Dallas Regional Office as managing principal.

Upon returning to St. Louis in 1984, he worked on a wide range of projects in North and South America, the Middle East, Europe and the Asia/Pacific region.

He has long been active on behalf of the School of Architecture, chairing the school's effort in the Alliance Campaign and serving for many years as on its national council.

He received the Distinguished Alumni Award in 1999 and currently serves as a co-chair of the Major Gift Committee for the University's capital campaign.

Obituary

Roady, 84

Thomas Golman Roady Jr., a retired circuit judge and interim dean of the School of Law in 1951, died of a stroke Sunday, March 30, 2003, at Jerseyville Hospital in Carrollton, Ill. He was 84.

Washington People

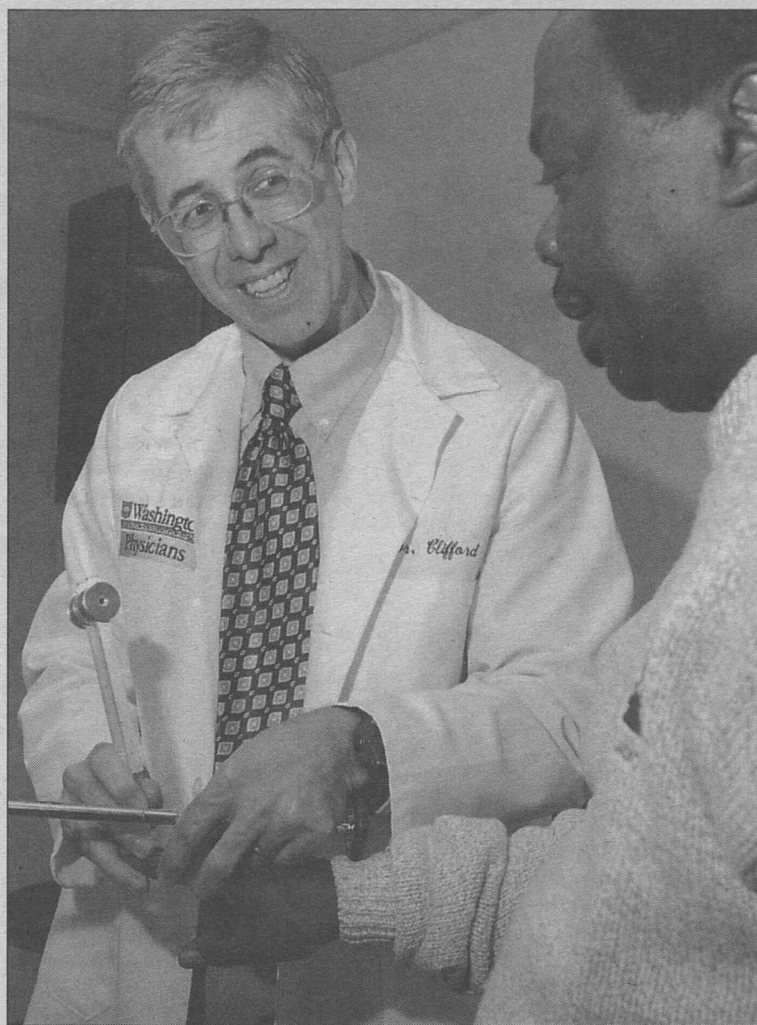
Raised by academic parents in the rich cultural world of university life, David B. Clifford, M.D., developed a taste for diversity at an early age.

Today, the craving for a range of challenges pervades both his personal and professional life, from athletics to music, from teaching to research, from the clinics of St. Louis to the fields of Africa.

"I can't resist doing multiple things at once," Clifford admits.

It's a trait that seems to have served him well. Now the Melba and Forest Seay Professor of Clinical Neuropharmacology in Neurology and head of the Department of Neurology, Clifford is internationally recognized as a pioneer in studying the neurological effects of HIV on the brain. And, as a product of the School of Medicine's graduate and residency programs and as the director of the neurology residency program for more than 10 years, Clifford has also established himself as a respected and valued part of the University community.

"Dave is a superb general neurologist, and his research is excellent," says William M. Landau, M.D., professor of neurology and head of the department from 1970-1991. "He's an exceptionally good doctor with an incredible capacity to involve himself in his patients' welfare, and his influence in organizing our teaching pro-



David B. Clifford, M.D., the Melba and Forest Seay Professor of Clinical Neuropharmacology in Neurology and head of the Department of Neurology, tests the reflexes of Sylvester Murriss, who recently underwent back surgery.

community needed to step up to the plate, pull together a group of investigators with similar interests and expertise and convince the NIH that this was an important area of research," says Clifford's colleague Justin C. McArthur, M.D., professor of neurology and epidemiology at Johns Hopkins University School of Medicine. "He basically single-handedly set up a very unique consortium that already has changed how we manage and treat patients with primary or secondary neurological complications of HIV.

"In my opinion, he's shown incredible political and diplomatic skill at setting this up and forging through a very difficult administrative challenge."

Between leading the research consortium, serving as head of the Department of Neurology until a permanent one is named and directing the neurology residency program, Clifford has taken on many daunting administrative tasks.

"I like to understand people, what motivates them and what will help them achieve what they can, and then to put together an environment for that to happen," Clifford explains. "I try not to be hampered in my thinking of how to solve problems and to think broadly and aggressively about creative solutions.

"The environment for pursuing interesting, new goals is something Washington University has been great at supporting."

Keeping culture close at hand

Clifford's latest professional "hobby" is extending his clinical AIDS expertise to Africa, where availability of the latest medications and information is scarce despite the fact that more than 25 million Africans are infected with HIV. His group recently enabled the donation and distribution of fluconazole, an important treatment of the fungal complications of HIV.

Clifford and his former African research fellow, Enawgaw Mehari, have also been working on establishing a clinic at the University of Addis Ababa in Ethiopia.

Somehow, he also has time for personal hobbies. A testament to his self-admitted love of variety, Clifford competes several times a year in triathlons and rides his bicycle to work every day in the spirit of fitness. He also is the substitute organist at his church and several others in town and sings in his "spare" time.

But some of his fondest memories are from family trips to far-away lands where he can indulge his cultural curiosity and enjoy his family.

Amid all this variety, there still is one thing that's remained constant throughout Clifford's life and that, in his opinion, has afforded him such rich diversity: collegiate life. Whether it's athletic and musical opportunities, traveling to Paris, exploring new research avenues, or indulging his love of history by helping the neurology community and the University maintain and expand their historical archives, Clifford is happy to have followed in his parents' academic footsteps.

David B. Clifford

University title: Melba and Forest Seay Professor of Clinical Neuropharmacology in Neurology and head of the Department of Neurology; director of the neurology residency training program

Family: Wife, Judy; children Michael, 24, and Ellen, 22

Hobbies: Piano, singing, running, swimming, biking, triathlons, travel, history

Embracing life's diversity

A musician, athlete, father & world traveler, David B. Clifford also heads the Department of Neurology

BY GILA Z. RECKESS

gram for neurology residents has helped build a couple of generations of great physicians."

From Band-Aids to world AIDS

From the moment he put a bandage on his first "patient" at age 3, Clifford knew he wanted to be a doctor. But he didn't surrender to the "calling," as he puts it, until the end of college.

Having been inspired by his laboratory research experience as a chemistry and history undergraduate at Southwestern University in Georgetown, Texas — a combination that indulged his complementary interests in science and humanities — Clifford finally acknowledged his intrinsic draw to academic medicine.

Similarly, from his first semester as a student at Washington University School of Medicine, Clifford was particularly attracted to neurology.

"The brain struck me as the most fascinating, challenging and important part of a person," Clifford recalls. "Neurology really resonated with how I like to analyze and think about ideas and challenges."

Nonetheless, Clifford again resisted. He stayed at the medical school as an intern and resident in

internal medicine for two years before indulging his initial instinct.

Ultimately, he found that combining his penchant for chemistry with his passion for neurology was irresistibly satisfying. He dedicated himself to becoming a neuropharmacologist, developing chemical approaches to treating nervous-system disorders.

In the end, Clifford's meandering path was the perfect preparation for his current career focus.

Once firmly entrenched in neurology, Clifford began establishing himself as a researcher in addition to continuing his clinical work.

He first investigated drug interactions in animal brains, particularly in models of epilepsy. Later, he teamed with the late John L. Trotter, M.D., former professor of neurology and director of the Division of Neuroimmunology, to examine treatments of multiple sclerosis.

These two clinical science opportunities, combined with Clifford's constant craving for a new challenge, primed him for the serendipitous encounter that would change the course of his career.

Just as he was completing a large, multicenter trial on multiple sclerosis and wondering about the direction of his next clinical step, he bumped into Lee Ratner, M.D., Ph.D., professor of medicine and of molecular microbiology. Ratner had returned from a stint in the lab of Robert C. Gallo, M.D., who had recently co-discovered a peculiar new virus he termed the human immunodeficiency virus.

Ratner, aware of Clifford's interest in infectious diseases as an intern and of his later expertise in neurology, asked the young neuropharmacologist to join him in researching this emerging new disease.

"I was intrigued, so I literally went out and read all there was to read about HIV and its affect on the brain, which wasn't much," Clifford recalls. "It struck me that this was a brand new disease that's dramatic and has all sorts of terrible consequences, and that there was virtually no other neurology project under way to study it. I quickly realized that this was going

to be the greatest pharmacological experiment of my lifetime."

He was right. HIV and AIDS manifested new medical quandaries in every corner of the nervous system, presenting an ideal challenge for a neuropharmacologist with such broad interests and medical training.

Within days of infection, HIV spreads into the brain, causing a variety of ailments such as dementia. Moreover, despite advances in treating the disease, some neuro-

"He's an exceptionally good doctor with an incredible capacity to involve himself in his patients' welfare, and his influence in organizing our teaching program for neurology residents has helped build a couple of generations of great physicians."

WILLIAM M. LANDAU

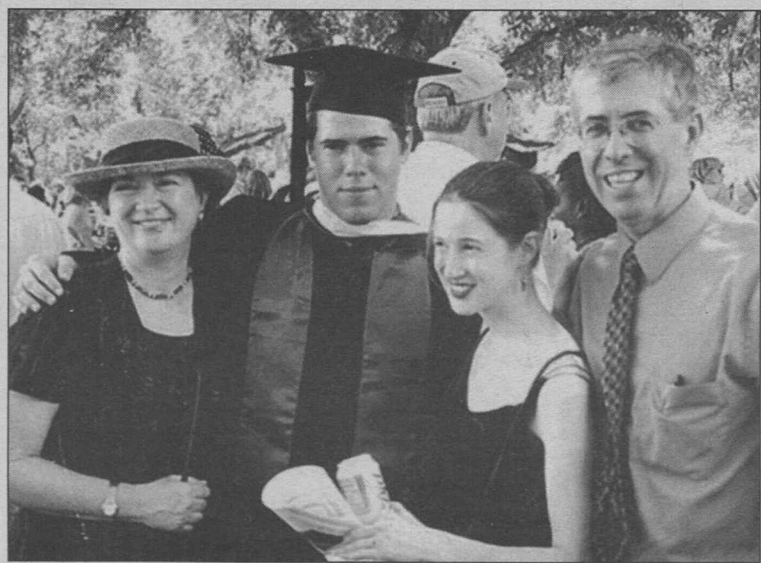
logical effects of AIDS actually are exacerbated by the toxicity of these medications.

And because the brain's natural protective shield, the blood-brain barrier, often prevents drugs from penetrating, it is a particularly difficult pharmacological conundrum.

Within a few short years, it became clear to Clifford that the unique milieu of the nervous system deserved focused attention, and that the neurological research effort needed leadership and funding.

Despite widespread warnings that such dreams were hopeless, Clifford approached the National Institutes of Health (NIH) and ultimately won its support. He established the Neurologic AIDS Research Consortium, now in its second decade of existence, which Clifford continues to lead as principal investigator.

"David had the foresight to recognize that the neurological com-



David B. Clifford, with wife Judy and children Michael and Ellen, at Michael's graduation from Rice University in Houston.